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Committee of Experts on the Transport of Dangerous Goods and on the Globally Harmonized System of Classification and Labelling of Chemicals

Sub-Committee of Experts on the Transport of Dangerous Goods

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Item 6 (b) of the provisional agenda
Transport of gases: miscellaneous

Insertion of new ISO standards for filling in P200

Transmitted by the International Organisation for Standardisation (ISO)[1]

Introduction

1. ISO TC 58/SC4 has published several standards on covering inspection at the time of filling. Industry representatives believe these standards are a positive contribution to the safety of pressure receptacles and would like to see these standards included in the United Nations Model Regulations.

2. The standards are:

ISO 10691:2004 Gas cylinders – Refillable welded steel cylinders for liquified petroleum gas (LPG) – Procedures for checking before, during and after filling

ISO 11372:2011 Gas cylinders – Acetylene cylinders – Filling conditions and filling inspection

ISO 11755:2005 Gas cylinders – Cylinder bundles for compressed and liquefied gases (excluding acetylene) – Inspection at time of filling

ISO 13088:2011 Gas cylinders – Acetylene cylinder bundles – Filling conditions and filling inspection

[1] In accordance with the programme of work of the Sub-Committee for 2013–2014 approved by the Committee at its twenty-sixth session (see ST/SG/AC.10/C.3/84, para. 86 and ST/SG/AC.10/40, para. 14).

ISO 24431:2006 Gas cylinders – Cylinders for compressed and liquefied gases (excluding acetylene) – Inspection at time of filling.

3. P200 seems the most appropriate place for these standards since that gives the instructions for filling. The basic requirements are that filling should be carried out by trained and qualified staff using appropriate equipment and procedures. These requirements would be considered to be fulfilled if the above listed standards were applied.

Proposal

4. Insert a new paragraph (4) in 4.1.4.1 P200 and renumber the existing paragraph (4) as (5), as follows:

(4) The filling of pressure receptacles shall be carried out by qualified staff using appropriate equipment and procedures.

The procedures should include checks of:

- The conformity to regulations of receptacles and accessories;
- Their compatibility with the product to be carried;
- The absence of damage which might affect safety;
- Compliance with the degree or pressure of filling, as appropriate;
- Markings and identification.

These requirements are considered to be fulfilled if the following standards are applied:

ISO 10691: 2004	Gas cylinders – Refillable welded steel cylinders for liquified petroleum gas (LPG) – Procedures for checking before, during and after filling.
ISO 11372: 2011	Gas cylinders – Acetylene cylinders – Filling conditions and filling inspection
ISO 11755: 2005	Gas cylinders – Cylinder bundles for compressed and liquefied gases (excluding acetylene) – Inspection at time of filling
ISO 13088: 2011	Gas cylinders – Acetylene cylinder bundles – Filling conditions and filling inspection
ISO 24431:2006	Gas cylinders – Cylinders for compressed and liquefied gases (excluding acetylene) – Inspection at time of filling

5. Since the standards are not mandatory, no transition provisions are necessary.